

PROJECT TITLE : Nitrate Reduction by Controlled Fermentation
PERIOD COVERED : January 5th - 26th, 1981
WRITTEN BY : C. Ruf

1. TRIALS

The trial NINO 66 ran from January 20th to 22nd in the pilot plant. The objective of the trial was to generate a certain quantity of denitrated RL extract. The extraction of a European RL feedstock blend was carried out in the Rotocell extractor. The corresponding extract was then fermented, centrifuged and concentrated to 20% total solids. This extract will be re-concentrated in laboratory equipment to 48% total solids in case of need for sizing of hand sheets (Ref. 1 and 2).

2. STRIP DENITRATION

2.1. All the operations related to strip denitration will henceforth be reported under the project name LEAR. The term NINO will only be used for stem or RL denitration by controlled fermentation.

2.2. Some of the cigarettes made in Richmond with Burley strips denitrated in trial NINO 65 were given for analyses to our smoking laboratory. A reduction of NO in the smoke of approx. 50% in Marlboro and 90% in 100% Burley cigarettes was found (Ref. 3).

2.3. A meeting took place on January 26th to fix some directions for the future pilot plant trials (Ref. 4).

3. PILOT PLANT

See monthly report "Pilot Plant Operations" written by N. Lüthi, January 1981.

4. MISCELLANEOUS

On January 23rd, the undersigned visited Nova Werke AG, a company specialized in high pressure extraction (Ref. 5).

0000144641

5. REFERENCES

- Ref. 1 : "Essai NINO 66", N. Lüthi, January 20th, 1981
Ref. 2 : "Essai NINO 66", J.-M. Chassot, January 20th, 1981
Ref. 3 : Fumage test No. 258/2361, 259/2362, 261/2363, 9/2364
du 16.1.1981
Ref. 4 : "Minutes of meeting to discuss future denitration trials",
January 26th, 1981, C. Ruf
Ref. 5 : "Report on the visit of Nova Werke AG", February 2nd, 1981,
C. Ruf.

PROCESS DEVELOPMENT



C. Ruf

CLR/sde
February 4th, 1981

0000144642